

Materials List for:

# Generation of Topically Transgenic Rats by *In utero* Electroporation and *In vivo* Bioluminescence Screening

Sandra Vomund<sup>1</sup>, Tamar Sapir<sup>2</sup>, Orly Reiner<sup>2</sup>, Maria A. de Souza Silva<sup>3</sup>, Carsten Korth<sup>1</sup>

<sup>1</sup>Department of Neuropathology, Medical School Düsseldorf

<sup>2</sup>Department of Molecular Genetics, Weizmann Institute for Science

<sup>3</sup>Center of Behavioral Neuroscience, University of Düsseldorf

Correspondence to: Carsten Korth at [ckorth@uni-duesseldorf.de](mailto:ckorth@uni-duesseldorf.de)

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## Materials

Name	Company	Catalog Number	Comments
<b>Reagent name</b>			
Dulbecco's Phosphate-Buffered Saline (PBS)	Invitrogen	14190-250	without calcium, without magnesium
D-luciferin, sodium salt	SynChem OHG, Germany	BC218	CAS number: 103404-75-7 substrate for firefly-luciferase
Fast Green FCF	Sigma Aldrich, USA	F7258-25G	CAS: 2353-45-9
D-Amphetamine	Sigma Aldrich, USA	A 5880	CAS: 51-63-8
kodan Tinktur forte	Schülke Mayr GmbH, Germany	104 005	
<b>Material / product</b>			
Glass capillaries	Sutter Instrument	Novato, California, USA	borosilicate glass O.D.:1 mm, I.D.: 0.78 mm
Needle Pipette Puller	David Kopf Instruments	Tujunga, California, USA	
Tweezer electrode	Nepa Gene CO., LTD.	Shioyaki, Ichikawa, Chiba, Japan	7 mm in diameter platinum disc electrodes ( <a href="#">CUY650P7</a> )
Surgical Scissors - sharp	Fine Science Tools	Heidelberg, Germany	Straight, 12 cm (14002-12)
Ring Forceps	Fine Science Tools	Heidelberg, Germany	2.2 mm ID, 3 mm OD (11021-12)
Square wave pulse electroporator (CUY21SC)	Nepa Gene CO., LTD.	Shioyaki, Ichikawa, Chiba, Japan	(CUY21SC)
Vicryl surgical suture material	Ethicon	Norderstedt, Germany	3-0; 2 Ph. Eur;
Wound Clip Applicator	Fine Science Tools	Heidelberg, Germany	Reflex 9 mm (12032-09)
Syringe filter	VWR	Darmstadt, Germany	0.45 µm cellulose acetate
IVIS Spectrum	Caliper Life Science / PerkinElmer	Waltham, MassachusettsUSA	
XGI-8 Gas Anesthesia System	PerkinElmer	Waltham, MassachusettsUSA	
Open-field	Coulbourn Instruments	Allentown, USA	(40 x 40 x 39 cm)
Tru Scan activity system	Coulbourn Instruments	Allentown, USA	

### Table of recipes

Number	Buffer name	Content	Comments
1	DNA-Mixture for DISC-1 overexpressing	1.5 µg/µl pCAX humanDISC-1, 0.5 µg/µl pCAX-luciferase, 10x PBS (10 %) Fast Green Dye (0,5 %) add H <sub>2</sub> O	100 µl of the mixture are enough for ~5 IUE
2	DNA-Mixture for control	0,75 µg/µl control shRNA1, 0,75 µg/µl control shRNA2, 0.5 µg/µl pCAX-luciferase, 0.5 µg/µl pCAGGS-GFP 10x PBS (10 %) Fast Green Dye (0,5 %) add H <sub>2</sub> O	100 µl of the mixture are enough for ~5 IUE

3	Fast green Dye	10 mg/ml Fast Green FCF in ddH <sub>2</sub> O	
4	D-luciferin solution	15 mg/ml D-luciferin, sodium salt in PBS	
5	Amphetamine solution	0.5 mg/ml D-Amphetamine in PBS	